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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/911,757	07/23/2001	Keith R. Slavin	MIC-2	5003
1473	7590 06/24/2005		EXAMINER	
FISH & NEAVE IP GROUP ROPES & GRAY LLP 1251 AVENUE OF THE AMERICAS FL C3			COUSO, YON JUNG	
			ART UNIT	PAPER NUMBER
NEW YORK	K, NY 10020-1105	2625		
	•		DATE MAILED: 06/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/911,757	SLAVIN, KEITH R.			
Office Action Summary	Examiner	Art Unit			
	Yon Couso	2625			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 12 Ap	<u>oril 2005</u> .				
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) ☐ Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) 10-16 and 26-32 is/ar 5) ☐ Claim(s) 1-5 and 17-21 is/are allowed. 6) ☐ Claim(s) 6-9 and 22-25 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 					
Application Papers					
9)☐ The specification is objected to by the Examiner	:				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the d	- · · · · · · · · · · · · · · · · · · ·	, ,			
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.		` '			
Priority under 35 U.S.C. § 119					
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attać hment(s)					
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
Py	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)			

Application/Control Number: 09/911,757

Art Unit: 2625

- 1. Applicant's election of Group I of claims 1-9 and 17-25 in the reply filed on April 12, 2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the apparatus (claims 17-25) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 7-9 and 23-25 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 7 reads "calculating a difference between two inner of four adjacent image samples; setting a first gradient equal to said difference; and setting a second gradient equal to said difference". This is a pure mathematical algorithm. Mathematical algorithm, per se, is not statutory.

Claim 23 is rejected for the same reason.

4. Claims 6-9 and 22-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6, line 12 "said ringing" should be "said ringing artifacts". Claim 22 has the same problem.

Claims 7 and 23 are incomplete. Claim 7 recites in the preamble "A method of suppressing ringing artifacts during digital image resizing." There is nothing in the claim suppresses ringing artifact not any indication that it's during the digital resizing. Three mathematical steps cited do not have any tie to the preamble or any meaning as to how this would suppress the ringing artifacts. See MPEP § 2172.01. Claim 23 has the same problem.

Claims 8-9 and 24-25 are rejected as being variously depends from an indefinite antecedent claim.

Application/Control Number: 09/911,757 Page 4

Art Unit: 2625

5. Claims 1-5 and 17-21 are allowed.

6. The following is an examiner's statement of reasons for allowance: prior art fails to teach or suggest a method and an apparatus for suppressing ringing artifacts during digital resizing of an image, said method comprising: calculating a first difference between two inner of four adjacent image samples; calculating a second difference between two outer of said four samples; correcting said first and second differences by inverting the sign of said first and second differences when said first difference is negative; tripling said first corrected difference; comparing said second corrected difference with said tripled first corrected difference; and suppressing ringing artifacts between said two inner samples using a linear interpolation model when said second corrected difference is greater than said tripled first corrected difference.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 7. Claims 6 and 22 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chen, Fan, Devaney et al, and Eschbach et al are cited.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yon Couso whose telephone number is (571) 272-7448. The examiner can normally be reached on Monday through Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta, can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YJC

June 16, 2005

YON J. COUSO PRIMARY EXAMINED